



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

SERIAL NUMBER	FILING DATE	PRIORITY CLAIM NUMBER	ATTORNEY DOCKET NO.
---------------	-------------	-----------------------	---------------------

07/846,597 03/05/92 FULLERTON L FULLERTON, 7

EXAMINER

GREGORY, B

C. A. PHILLIPS  
1100 JORDAN LANE  
SUITE K  
HUNTSVILLE, AL. 35816-3030

ART UNIT PAPER NUMBER

2:202 2

DATE MAILED: 05/28/92

This is a communication from the examiner in charge of your application.  
COMMISSIONER OF PATENTS AND TRADEMARKS

This application has been examined  Responsive to communication filed on \_\_\_\_\_  This action is made final.

A shortened statutory period for response to this action is set to expire \_\_\_\_\_ month(s), 30 days from the date of this letter.  
Failure to respond within the period for response will cause the application to become abandoned. 35 U.S.C. 133

Part I THE FOLLOWING ATTACHMENT(S) ARE PART OF THIS ACTION:

1.  Notice of References Cited by Examiner, PTO-892.
2.  Notice re Patent Drawing, PTO-948.
3.  Notice of Art Cited by Applicant, PTO-1449.
4.  Notice of informal Patent Application, Form PTO-152.
5.  Information on How to Effect Drawing Changes, PTO-1474.
6.  \_\_\_\_\_

Part II SUMMARY OF ACTION

1.  Claims 1-22 are pending in the application.

Of the above, claims \_\_\_\_\_ are withdrawn from consideration.

2.  Claims \_\_\_\_\_ have been cancelled.

3.  Claims \_\_\_\_\_ are allowed.

4.  Claims \_\_\_\_\_ are rejected.

5.  Claims \_\_\_\_\_ are objected to.

6.  Claims 1-22 are subject to restriction or election requirement.

7.  This application has been filed with informal drawings under 37 C.F.R. 1.85 which are acceptable for examination purposes.

8.  Formal drawings are required in response to this Office action.

9.  The corrected or substitute drawings have been received on \_\_\_\_\_. Under 37 C.F.R. 1.84 these drawings are  acceptable.  not acceptable (see explanation or Notice re Patent Drawing, PTO-948).

10.  The proposed additional or substitute sheet(s) of drawings, filed on \_\_\_\_\_ has (have) been  approved by the examiner.  disapproved by the examiner (see explanation).

11.  The proposed drawing correction, filed on \_\_\_\_\_, has been  approved.  disapproved (see explanation).

12.  Acknowledgment is made of the claim for priority under U.S.C. 119. The certified copy has  been received  not been received  been filed in parent application, serial no. \_\_\_\_\_; filed on \_\_\_\_\_

13.  Since this application appears to be in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.

14.  Other

EXAMINER'S ACTION

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-8, drawn to Time Domain Radio Transmission Systems, classified in Class 342, subclass 23+.
- II. Claims 9-11, drawn to Time Domain Radars, classified in Class 342, subclass 21.
- III. Claims 12-20, drawn to Wideband EM Systems, classified in Class 375, subclass 1.
- IV. Claims 21-22, drawn to Light Modulators, classified in Class 359, subclass 237+.

The inventions are distinct, each from the other because of the following reasons:

Inventions I, II, and III and IV are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability and (2) that the subcombination has utility by itself or in other combinations. (MPEP 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed for patentability because inventions I, II, and III are directed toward very specific types of Time Domain and Wideband Radio devices rather than to the type of modulator. The subcombination (invention IV) has separate utility such as a modulator in a fiber optical telephone system.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classifications restriction for examination purposes as indicated is proper.

Applicant is advised that the response to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Bernarr Gregory whose telephone number is (703)-308-0479. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703)-308-0766.

*Bernarr E. Gregory*  
BERNARR E. GREGORY  
EXAMINER  
~~ART UNIT 222~~ 2202